

BAM-1020 Audit Sheet

Model: **BAM-1020**

Serial Number: **T21292**

Audit Date: **1/3/17**

Audited By: **M. Potter**

| Flow Audits | | | |
|------------------------------------|------------------------|--------------------------|----------------------------------|
| Flow Reference Standard Used: | Model: DeltaCal | Serial No: 146294 | Calibration Date: 1/16/16 |
| Temperature Standard Used: | Model: " | Serial No: " | Calibration Date: " |
| Barometric Pressure Standard Used: | Model: " | Serial No: " | Calibration Date: " |

Leak Check Value: as found: **6.8** lpm as left: **0.5** lpm

| | | | | | | | |
|--------------------------------|-----------|-----------------|-------------------|----------|-----------------|-------------------|---|
| Ambient Temperature: | as found: | 10.8 C | 12.5 C | as left: | 10.8 C | 12.5 C | N/A <input type="checkbox"/> |
| Barometric Pressure: | as found: | 740 mmHg | 739.5 mmHg | as left: | 740 mmHg | 739.5 mmHg | N/A <input type="checkbox"/> |
| Flow Rate (Actual Volumetric): | as found: | 16.7 lpm | 16.77 lpm | as left: | 16.7 lpm | 16.77 lpm | N/A <input type="checkbox"/> |
| Flow Rate (EPA Standard): | as found: | slpm | slpm | as left: | slpm | slpm | N/A <input checked="" type="checkbox"/> |

| Mechanical Audits | | | |
|----------------------------------|--|---|---|
| Pump muffler unclogged: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |
| Sample nozzle clean: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |
| Tape support vane clean: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |
| Capstan shaft clean: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |
| Rubber pinch rollers clean: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |
| Chassis ground wire installed: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |
| PM10 particle trap clean: | as found <input type="checkbox"/> | as left <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| PM10 drip jar empty: | as found <input type="checkbox"/> | as left <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| PM10 bug screen clear: | as found <input type="checkbox"/> | as left <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |
| PM2.5 particle trap clean: | as found <input type="checkbox"/> | as left <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| Inlet tube water-tight seal OK: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |
| Inlet tube perpendicular to BAM: | as found <input checked="" type="checkbox"/> | as left <input type="checkbox"/> | |

| Analog Voltage Output Audit | | | N/A <input type="checkbox"/> |
|-----------------------------|--------------------|----------------------|------------------------------|
| DAC Test Screen | BAM Voltage Output | Logger Voltage Input | |
| 0.000 Volts | Volts | Volts | |
| 0.500 Volts | Volts | Volts | |
| 1.000 Volts | Volts | Volts | |

| Membrane Audit | |
|------------------|--|
| LAST m (mg): | |
| ABS (mg): | |
| Difference (mg): | |
| % Difference: | |

| Flow Control Range | |
|--------------------|----------|
| Flow Setpoint | BAM Flow |
| 15.0 LPM | |
| 16.7 LPM | |
| 18.4 LPM | |

| Setup and Calibration Values | | | | | | | | |
|------------------------------|----------|-------|-----------|----------|-------|------------------|----------|-------|
| Parameter | Expected | Found | Parameter | Expected | Found | Parameter | Expected | Found |
| Clock Time/Date | | | FLOW TYPE | | | AP | | |
| RS232 baud | | | Cv | | | FRI | | |
| STATION # | | | Qo | | | FRh | | |
| RANGE | | | ABS | | | Password | | |
| BAM SAMPLE | | | μ sw | | | Cycle Mode | | |
| MET SAMPLE | | | K Factor | | | RH Control | | |
| OFFSET | | | BKGD | | | RH Setpoint | | |
| CONC UNITS | | | STD TEMP | | | Datalog RH | | |
| COUNT TIME | | | HEATER | | | Delta-T Control | | |
| FLOW RATE | | | el | | | Delta-T Setpoint | | |
| CONC TYPE | | | Errors | | | Datalog Delta-T | | |

| Last 6 Errors in BAM-1020 Error Log | | | | | |
|-------------------------------------|---------|-------|---------------|---------|-------|
| Error | Date | Time | Error | Date | Time |
| 1 Maintenance | 1/3/17 | 09:23 | 4 Maintenance | 12/3/16 | 17:15 |
| 2 BAM CAL Membrane 5% | 12/3/16 | 20:59 | 5 Maintenance | 12/3/16 | 17:11 |
| 3 Count Membrane | 12/3/16 | 20:59 | 6 Maintenance | 12/3/16 | 16:10 |

Audit Notes: **Tape Test 2X = PASS** **System running on arrival**
Weather Master down load **Data Download**
and reset